



# DECOPLAST PRODUCT SUBMITTAL



## DECOPLAST LIQUID WEATHER BARRIER



Date:	
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**Project:**

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**Location:**

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**Architect:**

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**General Contractor:**

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**Applicator:**

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### SYSTEM FEATURE

- ICC Code approved weather barrier.
- Ready to use fluid applied product.
- Easy to use. Comes in Smooth or Sanded Texture.
- Continuous protection across transitions and into rough openings.
- Can be exposed for 180 days.
- Can be used on most construction materials.
- Warranty.



# **Decoplast Liquid Weather Barrier for Use Beneath Claddings Other Than Decoplast EIFS Specification**

**CSI SECTION 07 25 00 – Weather Barriers**

**CSI SECTION 07 27 26 – Fluid-Applied Membrane Air Barriers – Spray, Trowel & Roll-On**

## **PART 1 - GENERAL**

### **1.1 SECTION INCLUDES**

- A. Manufacturer's requirements for the proper design, use, and installation of a 100% acrylic based, spray, trowel & roll-on, fluid-applied air & water-resistive barrier membrane.
- B. Related Sections

### **1.2 RELATED SECTIONS**

- A. Water Resistive Barriers – Section 07 25 00
- B. Vapor Retarders – 07 26 13
- C. Air Barriers – 07 27 26

### **1.3 REFERENCES**

- A. ASTM B117 Test Method for Salt Spray (Fog) Testing
- B. ASTM C1135 Test Method for Determining Tensile Adhesion Properties of Structural Sealants
- C. ASTM D522 Standard Test Methods for Mandrel Bend Test of Attached Organic Coatings
- D. ASTM D2247 Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- E. ASTM D4541 Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers
- F. ASTM E72 Test Methods of Conducting Strength Tests of Panels for Building Construction
- G. ASTM E84 Test Method for Surface Burning Characteristics of Building Materials
- H. ASTM E96 Test Method for Water Vapor Transmission of Materials
- I. ASTM E283 Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
- J. ASTM E331 Test Method for Water Penetration by Uniform Static Air Pressure Difference
- K. ASTM E695 Method for Measuring Relative Resistance to Impact Loading
- L. ASTM E2134 Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)
- M. ASTM E2178 Standard Test Method for Air Permeance of Building Materials
- N. ASTM E2485 Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings
- O. ASTM G155 Accelerated Weathering for Exposure of Nonmetallic Materials

### **1.4 DESCRIPTION**

- A. General: Decoplast Liquid Weather Barrier is available in Smooth and Sanded and is a flexible polymer based, non-cementitious, protective coating used as an air/water-resistive barrier when applied over acceptable exterior substrates.



## B. Design Requirements

1. Acceptable surfaces for Decoplast Liquid Weather Barrier include.
  - a. Exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79) requirements for water resistant core or Type X core at the time of application.
  - a. Exterior sheathing having a water-resistant core with fiberglass mat facers meeting ASTM C 1177.
  - b. Exterior fiber reinforced cement or calcium silicate boards.
  - c. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
  - d. APA Exterior or Exposure 1 Fire Retardant Treated (FRT) Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
  - e. APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 1/2 in (12.7 mm), minimum. **Note: Applications over OSB sheathing requires a minimum of 2 coats of Decoplast LWB – Smooth. Decoplast Sanded LWB – is not recommended for the field of wall application over OSB.**
  - f. Unpainted, unsealed concrete and CMU.
2. Decoplast LWB is not intended to be used as waterproofing for exterior horizontal surfaces or below grade applications.
3. Decoplast LWB can be exposed to weather up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface of the LWB for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding.
4. Deflections of the substrate systems shall not exceed 1/240 times the span.

## C. Functional Criteria:

### 1. General:

- a. Flashing: Flashing must be continuous and watertight. Flashing must be designed and installed to prevent water infiltration behind EIFS and other claddings. Refer to Division 07 Flashing Section for specified flashing materials.
- b. The configuration of the air & water-resistive barrier, drainage plane, flashing and cladding assembly materials must allow for the egress of incidental moisture.

### 2. Performance Requirements:

- a. System to meet the performance and testing requirements of the International Code Council Acceptance Criteria AC 212 and ASTM E2570.

Decoplast Liquid Weather Resistive Barrier	Method	ICC and ASTM E2570 Criteria	Results
Accelerated Weathering	AC 212	25 Cycles followed by Hydrostatic Pressure Test: No water penetration on the plane of the exterior facing side of the substrate.	Pass: No water penetration
Air Infiltration	ASTM E2178	Calculated flow Rate at 75 Pa (1.57 lb/ft <sup>2</sup> , 0.3 in H <sub>2</sub> O) = < 0.02 L/m <sup>2</sup> *s (< 0.004 cfm/ft <sup>2</sup> )	< .00001 L/m <sup>2</sup> *s (0.00001 cfm/ft <sup>2</sup> ) at 75 Pa (1.57 lb/ft <sup>2</sup> , 0.3 in H <sub>2</sub> O)
Air Leakage of Air Barrier Assemblies	ASTM E2357	Pass < 0.2 L / s·m <sup>2</sup> at 75 Pa (< 0.04 cfm / ft <sup>2</sup> at 1.57 psf)	Pass

Air Leakage	ASTM E283	No Criteria	< 0.004 cfm/ft <sup>2</sup>
Elongation	ASTM D412	No Criteria	360%
Flexibility	ASTM D522	No Criteria	No Cracking at 1/8" (3 mm)
Freeze-Thaw Resistance	ASTM E 2485	10 Cycles	Pass: No Deleterious Effects
Hydrostatic Pressure Test	AATCC 127 (Water Column)	Resist 21.6 in (55 cm) water for 5 hours before and after aging	No water penetration before and after aging
Nail Seal ability, Head of Water	ASTM D1970	Pass 5 inches of water	Pass
Evaluation of Fire Propagation	NFPA 285	In Accordance with IBC Chapter 26	Meets requirements for use on all Types of construction
Radiant heat exposure	NFPA 268	In Accordance with IBC Chapter 26	No ignition upon 20 minute radiant heat exposure at 1.25 w/cm <sup>2</sup> .
Pull off Strength	ASTM D 4541	No Water Penetration	Pass: No water penetration
Racking	ASTM E72	Deflection at 1/8 in (3.2 mm)	Pass -No cracking at field, joints or flashing connection
Structural Loading	ASTM E1233 Procedure A	10 Cycles @ 80% design load	Pass: No cracking at field, joints or flashing connection
Restrained Environmental	ICC ES AC 212 / ASTM E2570	5 Cycles of wetting and drying	Pass: No cracking at field, joints or flashing connection
Surface Burning Characteristics	ASTM E84	ICC and ASTM E2568 Flame Spread <25 Smoke Developed <450	Flame Spread =0 Smoke Developed =0
Tensile Bond Strength	ASTM E 2134/ ASTM C 297	Minimum 15 psi (104 kPa)	Pass: All listed substrates and flashing materials
Water Resistance	ASTM D 2247	14 Days	Pass: No Deleterious Effects
Water Penetration	ASTM E331	2.86 psf (137 Pa) for 15 minutes	Pass 25.4 psf (1216 Pa) for 165 minutes
Water Penetration	ASTM E331	Tested after Structural Loading, Racking and Restrained Environmental Cycling at 2.86 psf (137 Pa) for 15 minutes	No Water Penetration
Water Vapor Transmission	ASTM E96 Procedure B	Vapor Permeable	12.0 perms
Weathering	ICC ES AC 212 / ASTM E2570	210 hours of UV Exposure, 25 cycles of accelerated weatherin, 21.6 in (549 mm) water column for 5 hours	Pass
Wind Driven Rain	F.S. TT-C-555B	No Criteria	Pass

## **1.2 SUBMITTALS**

- A. General: Submit Samples, Evaluation Reports and Certificates in accordance with Division 01 General Requirements Submittal Section.

## **1.3 QUALITY ASSURANCE**

- A. Qualifications:
  - 1. All materials must be manufactured or sold by Decoplast and must be purchased from its authorized distributors.
  - 2. Applicator:
    - a. Must have attended manufacturer's Educational Seminar.
    - b. Must possess a current manufacturer's certificate of education.
    - c. Must be experienced and competent in installation of plaster-like materials and liquid-applied weather-resistive membranes.

## **1.4 DELIVERY, STORAGE, AND HANDLING**

- A. Delivery: Deliver air and water-resistive barrier materials in original packaging with manufacturer's identification.
- B. Storage: Store materials in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40°F (4°C) and below 110°F (43°C) in accordance with manufacturer's instructions.

## **1.5 PROJECT / SITE CONDITIONS**

- A. Installation Ambient Air Temperature: Minimum of 40°F (4°C) and rising and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply air & water-resistive barrier materials to substrates whose temperature are below 40°F (4°C) or contain frost or ice.
- C. Inclement Weather: Do not apply air & water-resistive barrier materials during inclement weather, unless appropriate protection is employed.
- D. Air & water-resistive barrier materials must not be applied if ambient temperature exceeds 120°F (49°C) or falls below 40°F (4°C) within 24 hours of application. Protect base coat from uneven and excessive evaporation during hot, dry weather.
- E. Prior to installation, the wall must be inspected for surface contamination, or other defects that may adversely affect the performance of the air & water-resistive barrier materials and must be free of residual moisture.

## **1.6 COORDINATION AND SCHEDULING**

- A. Coordination: Coordinate air & water-resistive barrier coating materials installation with other construction operation.

## **1.7 WARRANTY**

- A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

## **1.8 DESIGN RESPONSIBILITY**

- A. It is the responsibility of both the specifier and the purchaser to determine if a product is suitable for its intended use. The designer selected by the purchaser shall be responsible for all decisions pertaining to design, detail, structural capability, attachment details, shop drawings, and the like. Greenmaker Industries has prepared guidelines in the form of



specifications and product sheets to facilitate the design process only. Greenmaker Industries is not liable for any errors or omissions in design, detail, structural capability, attachment details, shop drawings, or the like, whether based upon the information prepared by Greenmaker Industries or otherwise, or for any changes which purchasers, specifiers, designers, or their appointed representatives may make to Greenmaker published comments.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURERS**

- A. Manufacturer, Basis of Design: DECOPLAST, 697 Oakwood Avenue, West Hartford, CT Contact: Architectural Sales or Technical Support (860.761.2830).
- B. Components: Obtain components from authorized distributors. No substitutions or additions of other materials are permitted without prior written permission from Architect 14 days before the bid is due for this project.

### **2.2 COMPONENTS**

- A. Water-Resistive Membrane & Air Barrier Coating:
  - 1. Decoplast Liquid Weather Resistive Barrier: 100% acrylic, elastomeric waterproof membrane and air barrier that can be either roller, brush or spray applied.
  - 2. Decoplast Sheathing Tape: Non-woven synthetic fiber tape to reinforce the membrane at sheathing board joints, into rough openings and other terminations into dissimilar materials.
  - 3. Decoplast Flashing Membrane: Self-sealing, polyester faced, rubberized asphalt membrane, 30 mils (0.76mm) thick.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Verify project site conditions under provisions of Section 01 00 00.
- B. Compliance: Comply with manufacturer's instructions for installation.
- C. Substrate Examination: Examine prior to water-resistive membrane and air barrier installation as follows:
  - 1. Substrate must be of a type approved by water-resistive membrane and air barrier manufacturer. Plywood and OSB substrates must be gapped 1/8 in (3.2mm) at all edges. Plywood and OSB substrates cut edges (non-factory edges) must be sealed with a water-resistive coating.
  - 2. Substrate must be examined for soundness, and other harmful conditions.
  - 3. Substrate must be free of dust, dirt, laitance, efflorescence, and other harmful contaminants.
  - 4. Substrate construction in accordance with substrate material manufacturer's specifications and applicable building codes.
  - 5. Maximum deflection of the substrate must be determined by the requirements of the exterior cladding.
- D. Flashing: Flashing must be installed prior to the water-resistive membrane & air barrier coating material and integrated with the wall field membrane to create positive drainage.
- E. Advise Contractor of discrepancies preventing proper installation of the water-resistive membrane & air barrier coating material. Do not proceed with the work until unsatisfactory conditions are corrected.

### **3.2 PREPARATION**

- A. Protection: Protect surrounding material surfaces and areas during installation of system.
- B. Clean surfaces thoroughly prior to installation.
- C. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result



for the substrate under the project conditions.

### **3.3 MIXING**

- A. Mix water-resistive membrane & air barrier materials in accordance with manufacturer's instructions.

### **3.4 APPLICATION**

- A. General: Installation shall conform to this specification and manufacturer's written instructions.
  - 1. Flash all rough openings with water-resistive & air barrier coating material embedded with sheathing tape.
  - 2. Treat all sheathing joints, inside and outside corners and all exposed edges at terminations with water-resistive membrane & air barrier coating material and embed sheathing tape.
  - 3. Apply a strip of Sheathing Fabric over all sheathing joints, including inside and outside corners and trowel apply a layer of LWB over the Sheathing Tape so that the color of the fabric is not visible.
  - 4. Apply water-resistive membrane & air barrier coating over the entire wall surface including previously treated joints.
    - a. Roller Application: Use a 3/4 inch to 1-1/4 inch (19-32mm) or 1-3/8 inch (35mm) nap roller designed for applying latex paints.
    - b. Spray Application: Spray apply the membrane at a rate of not more than 100 ft<sup>2</sup> per gallon (2.4 m<sup>2</sup> per liter).
  - 5. Ensure that the water-resistive membrane & air barrier coating laps onto all tracks and flashing to allow for any incidental moisture to be drained into the track/flashing.
  - 6. Allow water-resistive membrane & air barrier coating to completely dry before proceeding with additional layers of the assembly.

### **3.5 CLEAN-UP**

- A. Removal: Remove and legally dispose of water-resistive membrane & air barrier coating material from job site.
- B. Clean surfaces and work area of foreign materials resulting from material installation.

### **3.6 PROTECTION**

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed materials from dust, dirt, precipitation, freezing during installation, and continuous high humidity until fully cured and dry.
- C. Clean exposed surfaces using materials and methods recommended by the manufacturer of the material or product being cleaned. Remove and replace work that cannot be cleaned to the satisfaction of the Project Designer/Owner.

END OF SECTION

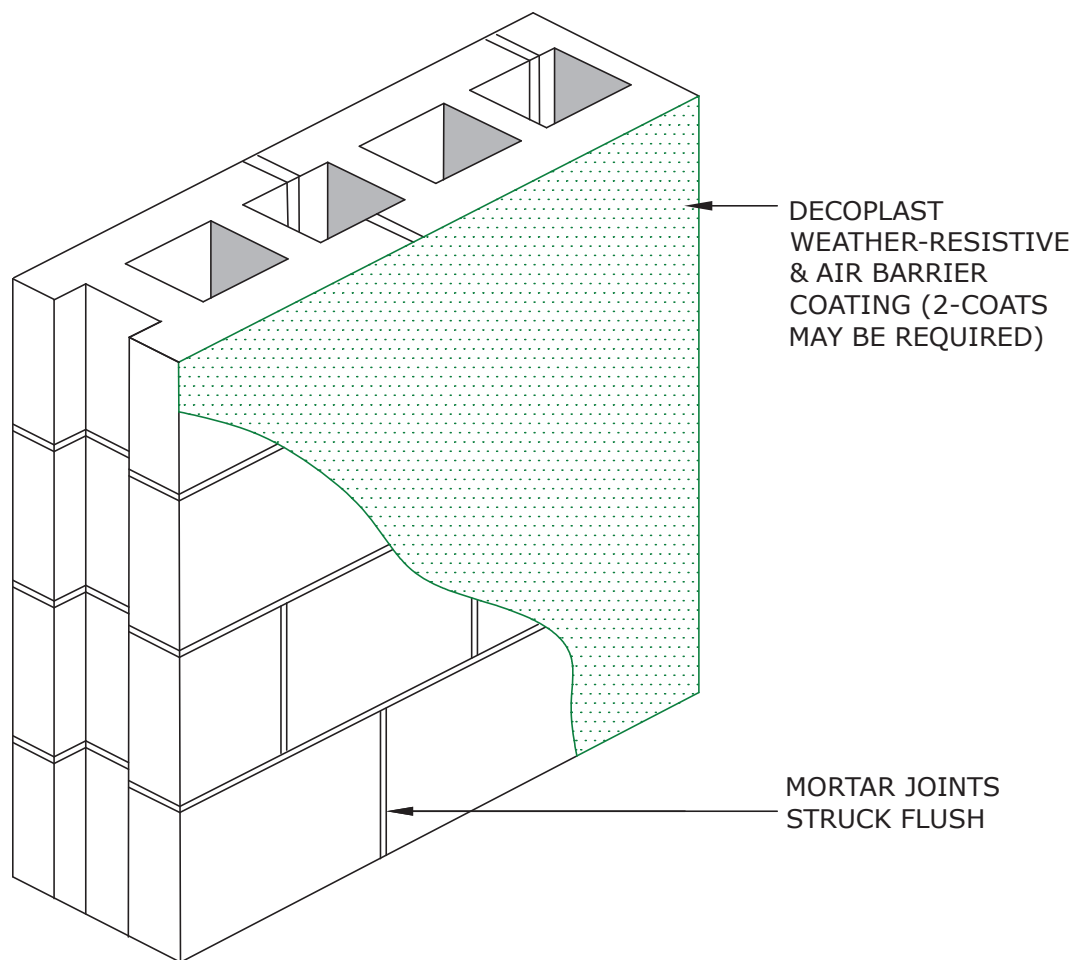
Rev. Jan 2021

*Disclaimer: This guide specification is intended for use by a qualified designer. The guide specification is not intended to be used verbatim as an actual specification without appropriate modifications for the specific use intended. The guide specification must be integrated into and coordinated with the procedures of each design firm, and the requirements of a specific project. For additional assistance, contact Decoplast Architectural Sales or Technical Support (860.761.2830).*





## WEATHER-RESISTIVE BARRIER



### DLWB 1.03 MASONRY

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

#### Notes:

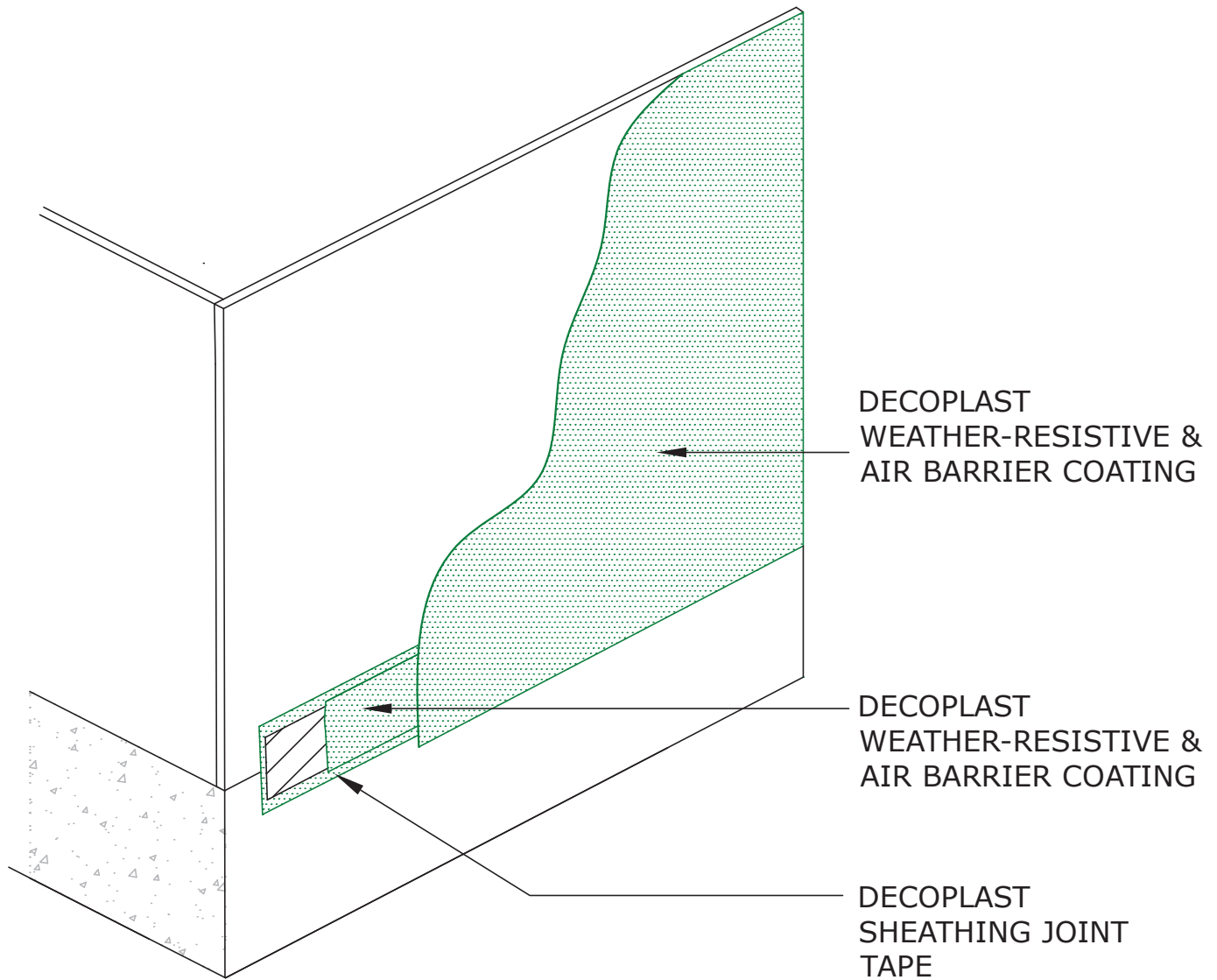
To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. There must be a consideration of the Designer in the overall wall assembly design. Stucco claddings and any cladding using a mortar bed require the use of a slipsheet installed over the Water-Resistive & Air Barrier Coating to prevent adhesion to the stucco.

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.04 AT FOUNDATION

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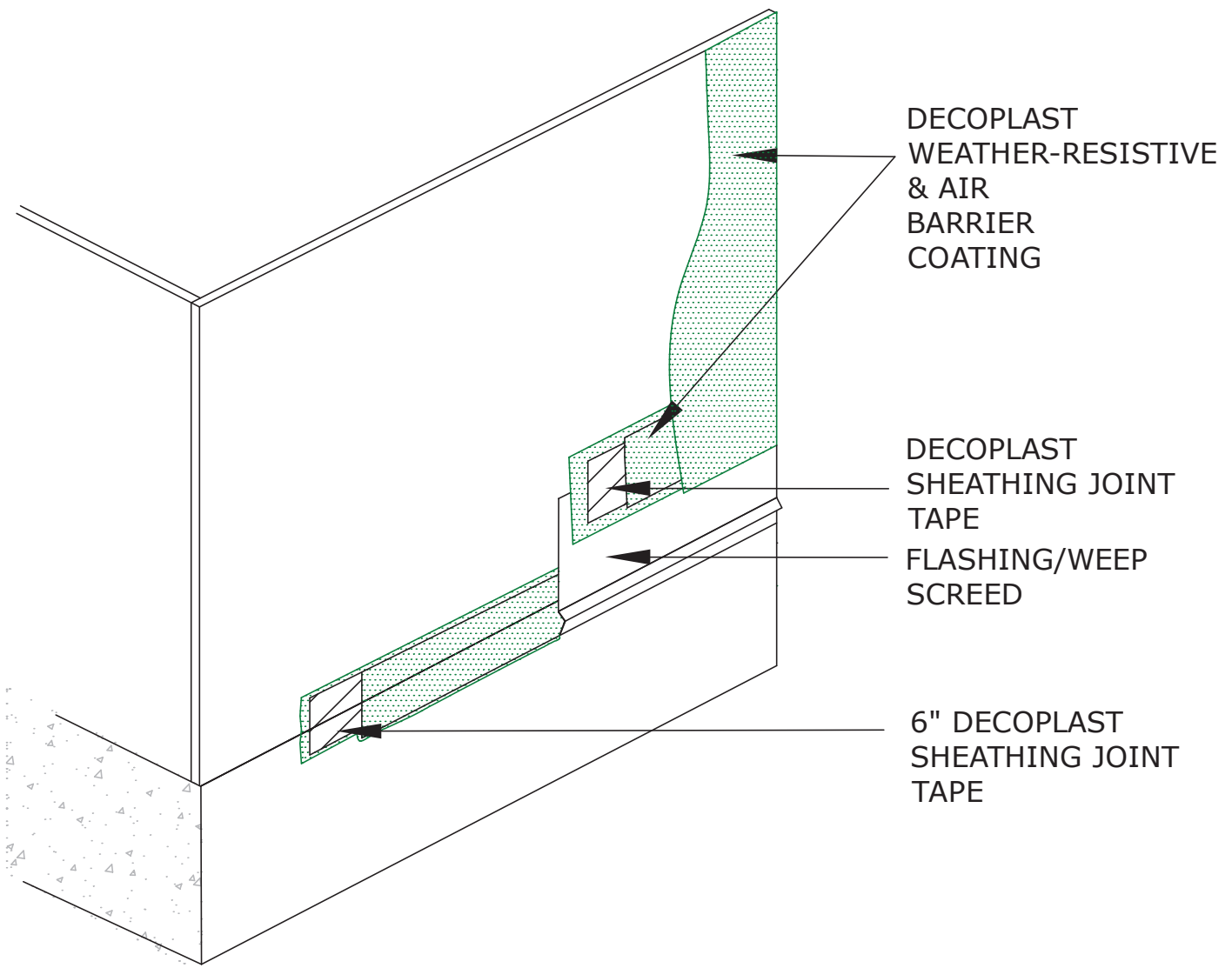
#### Notes:

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.05 TERMINATION AT WALL BASE FLASHING

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

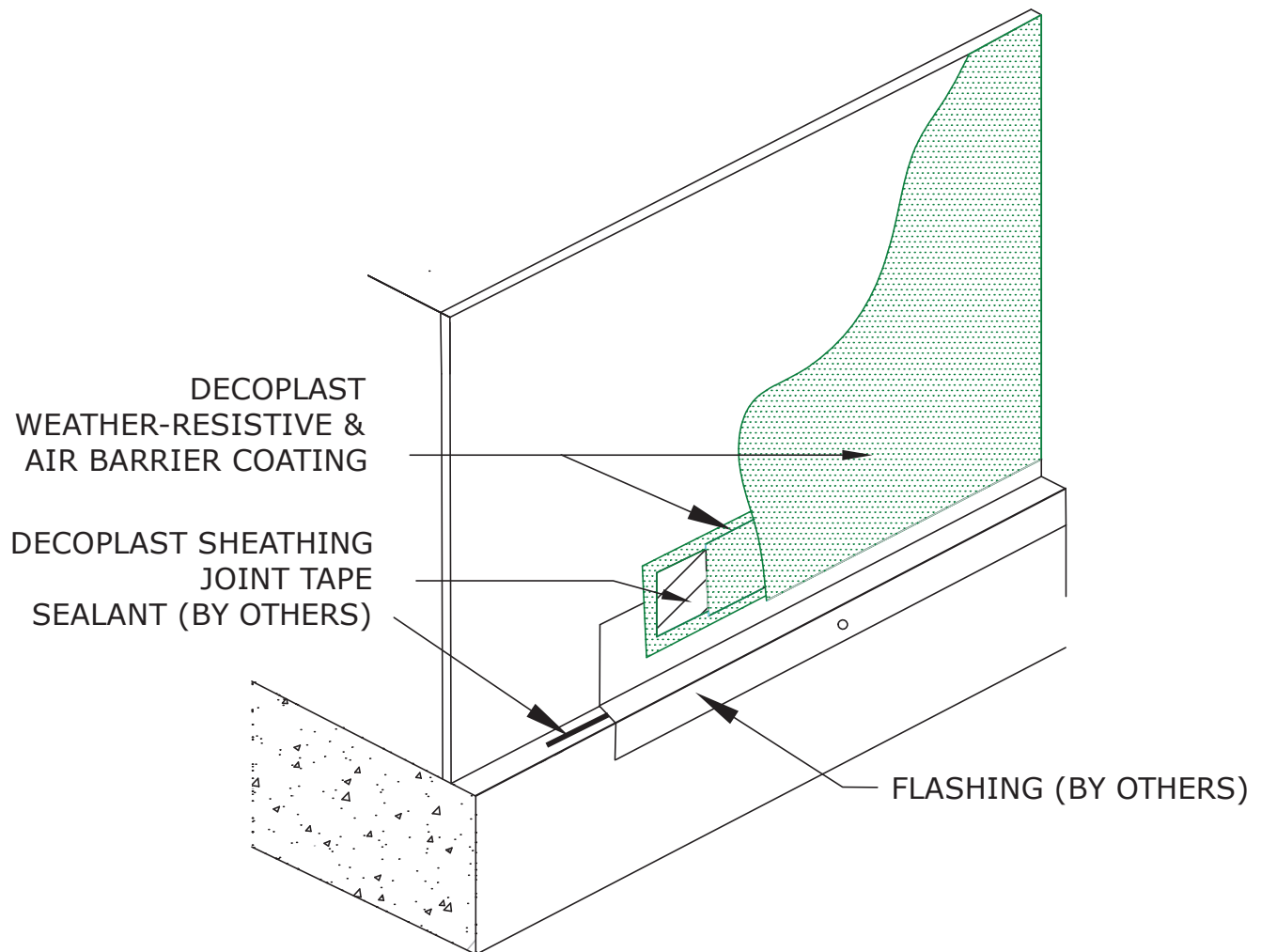
#### Notes:

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.06 TERMINATION AT FOUNDATION FLASHING

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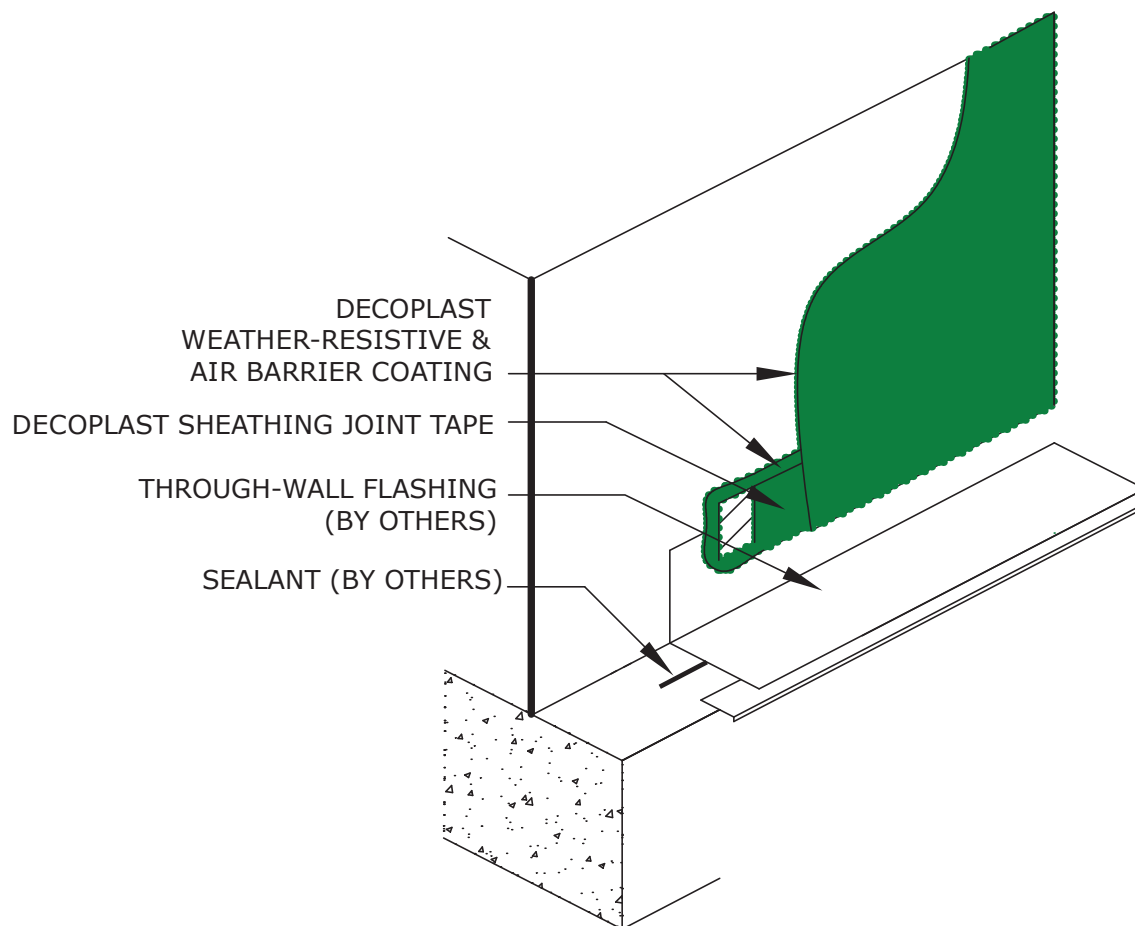
#### Notes:

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.08 TERMINATION AT THROUGH-WALL FLASHING AND FOUNDATION

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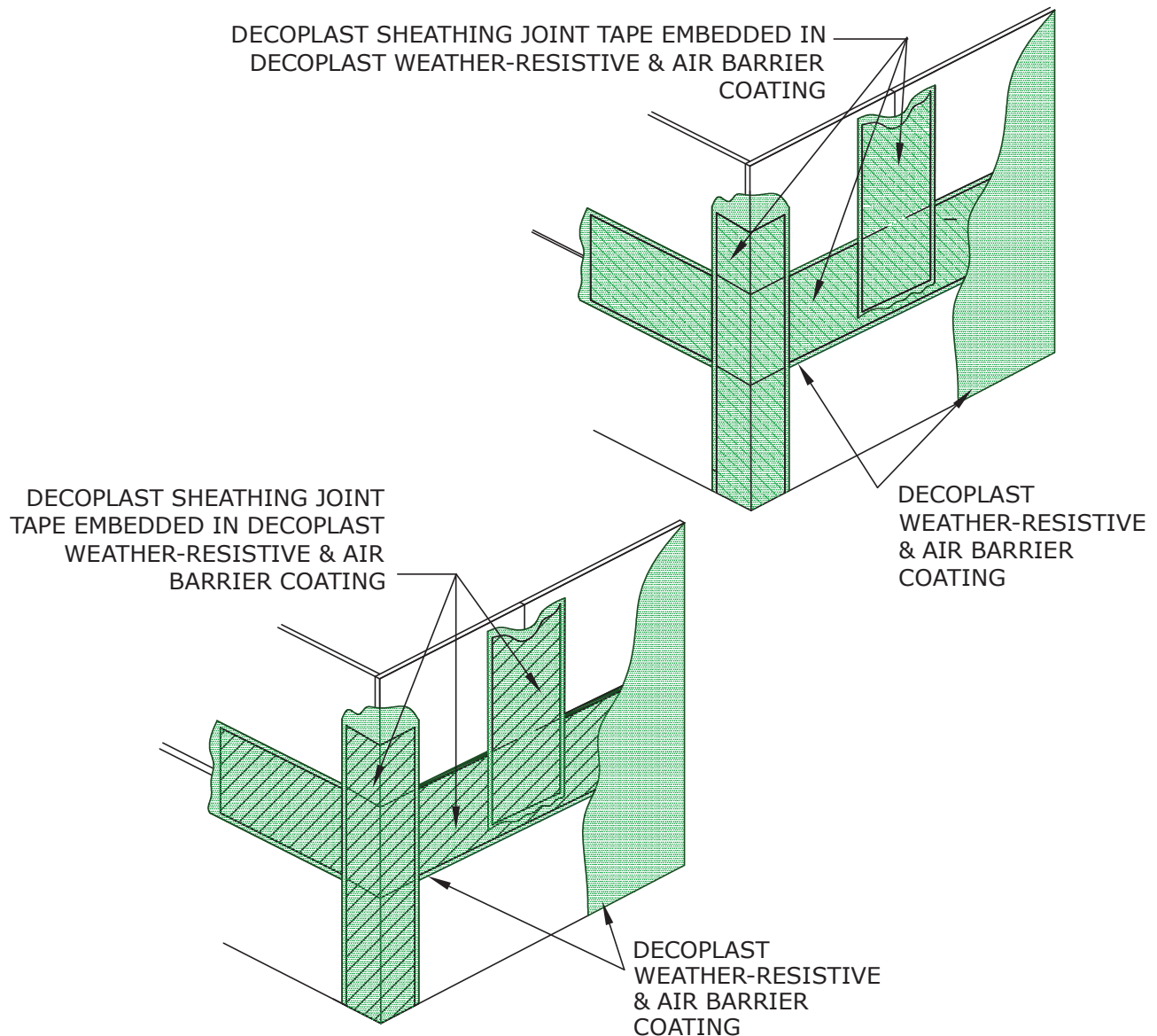
#### Notes:

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# WEATHER-RESISTIVE BARRIER



## DLWB 1.01 SHEATHING JOINT TREATMENT

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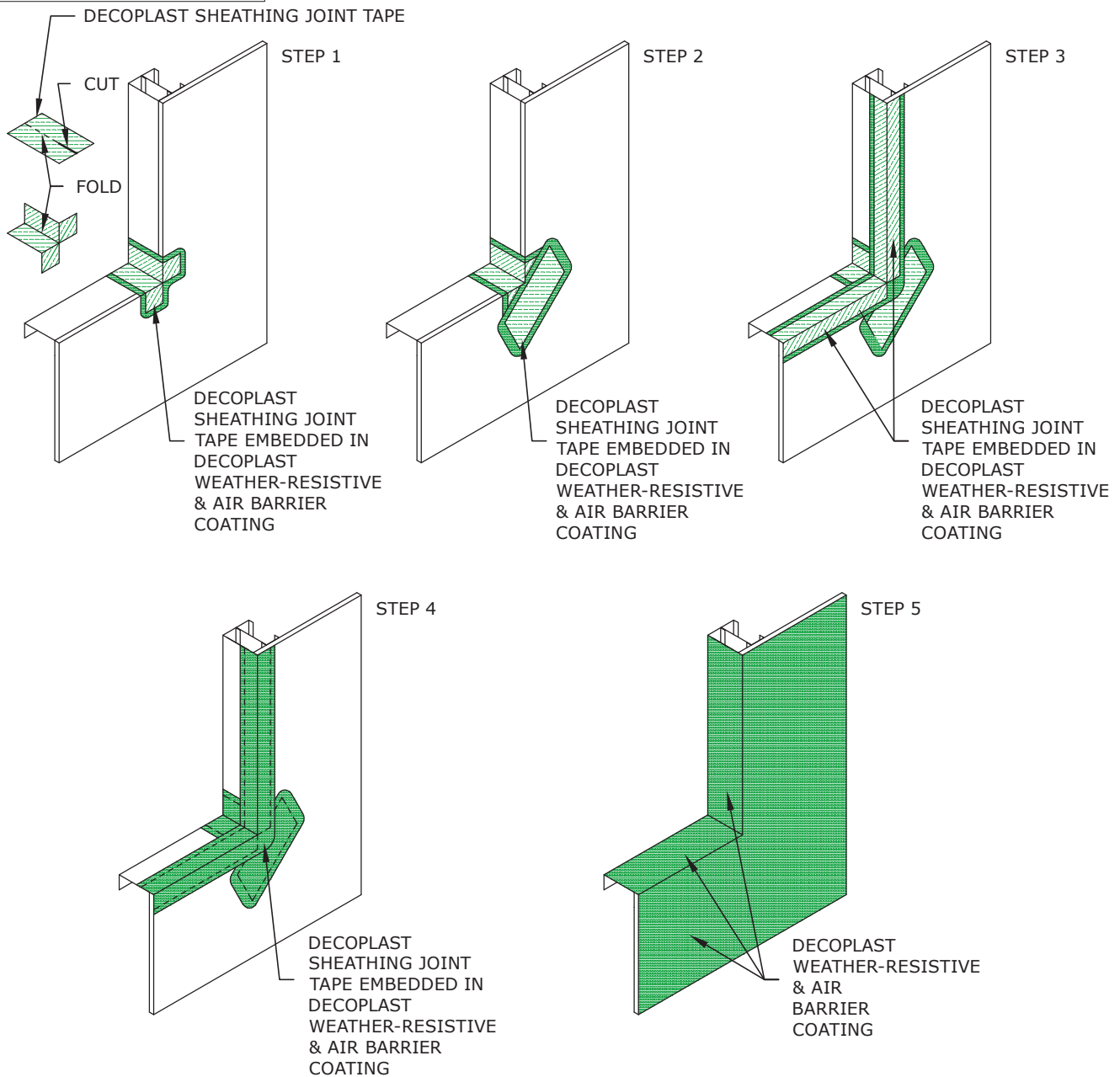
### Notes:

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# WEATHER-RESISTIVE BARRIER



## DLWB 1.10 ROUGH OPENING FLASHING (SEE NOTES)

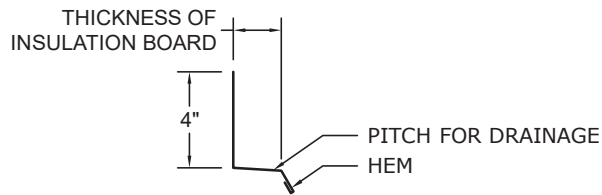
DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

- NOTE:
1. Head flashing procedure similar.
  2. To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. These must be a consideration of the designer in the overall wall assembly design.

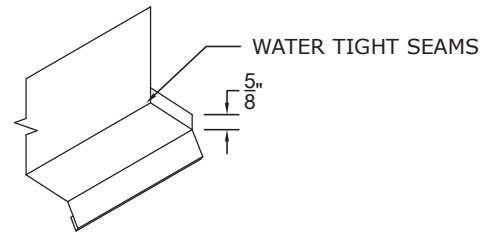
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# WEATHER-RESISTIVE BARRIER



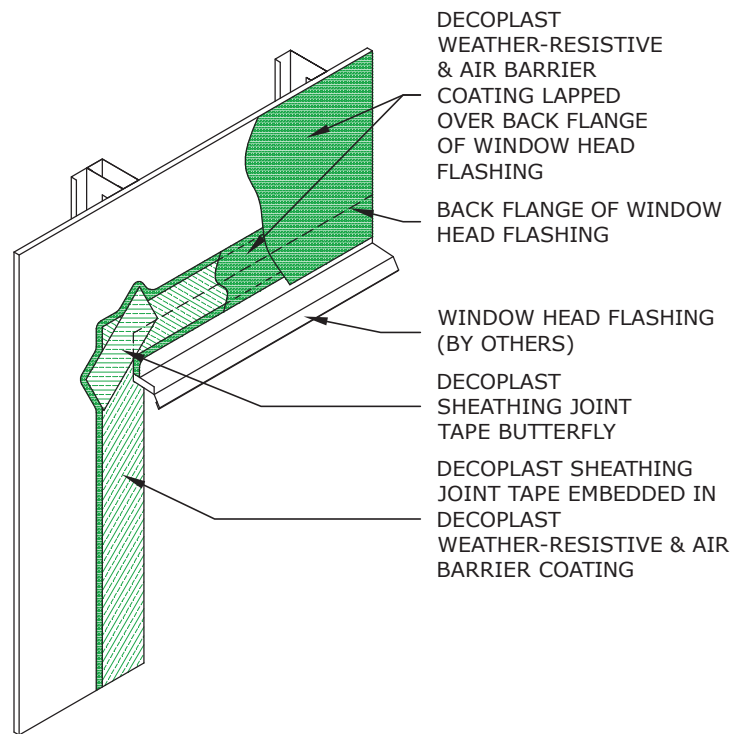
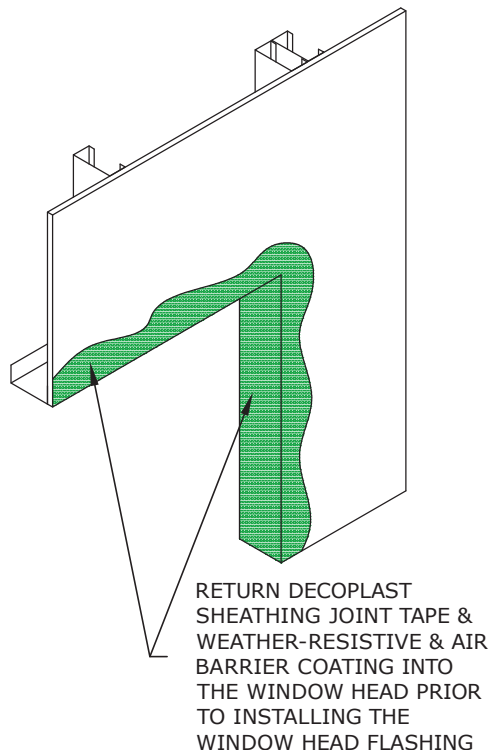
(PROFILE)



(PICTORAL)

## METAL HEAD FLASHING PROFILE

HEAD FLASHING SHOULD BE FABRICATED IN THE PROFILE SHOWN. LENGTH OF FLASHING IS 1" LONGER THAN THE WIDTH OF THE WINDOW FRAME. END DAMS SHOULD BE TURNED UPWARD 5/8" AS SHOWN.



## DLWB 1.11 ROUGH OPENING FLASHING PROCEDURE CONT.

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

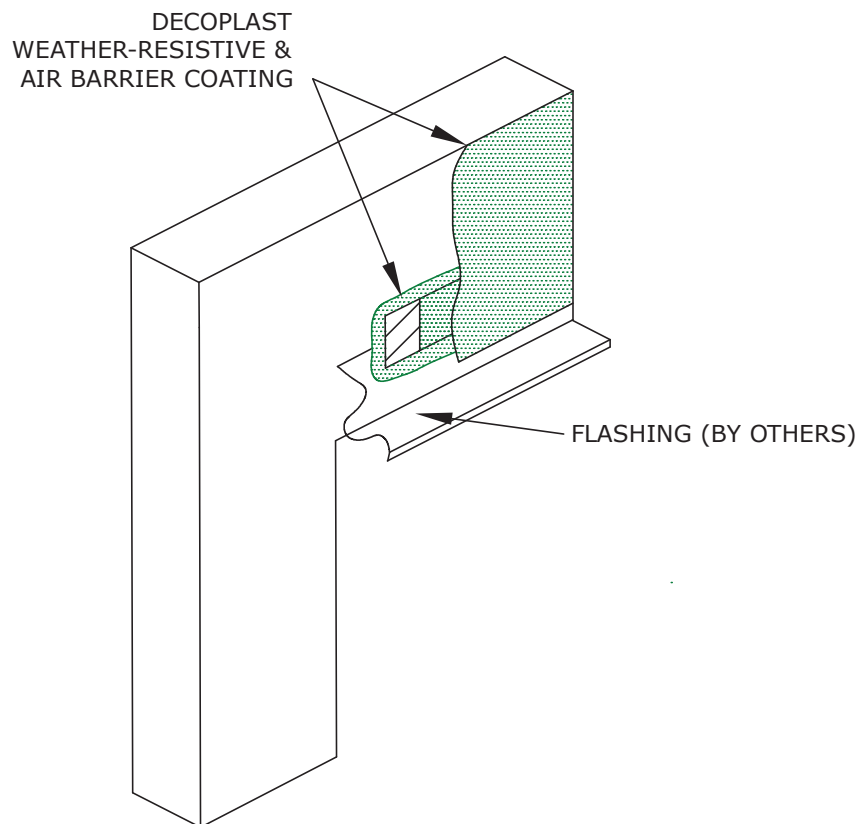
- NOTE:
1. To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. These must be a consideration of the designer in the overall wall assembly design.
  2. Finned window frames are installed before head flashing.
  3. Do not use plastic track at window heads.

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.12 HEAD FLASHING

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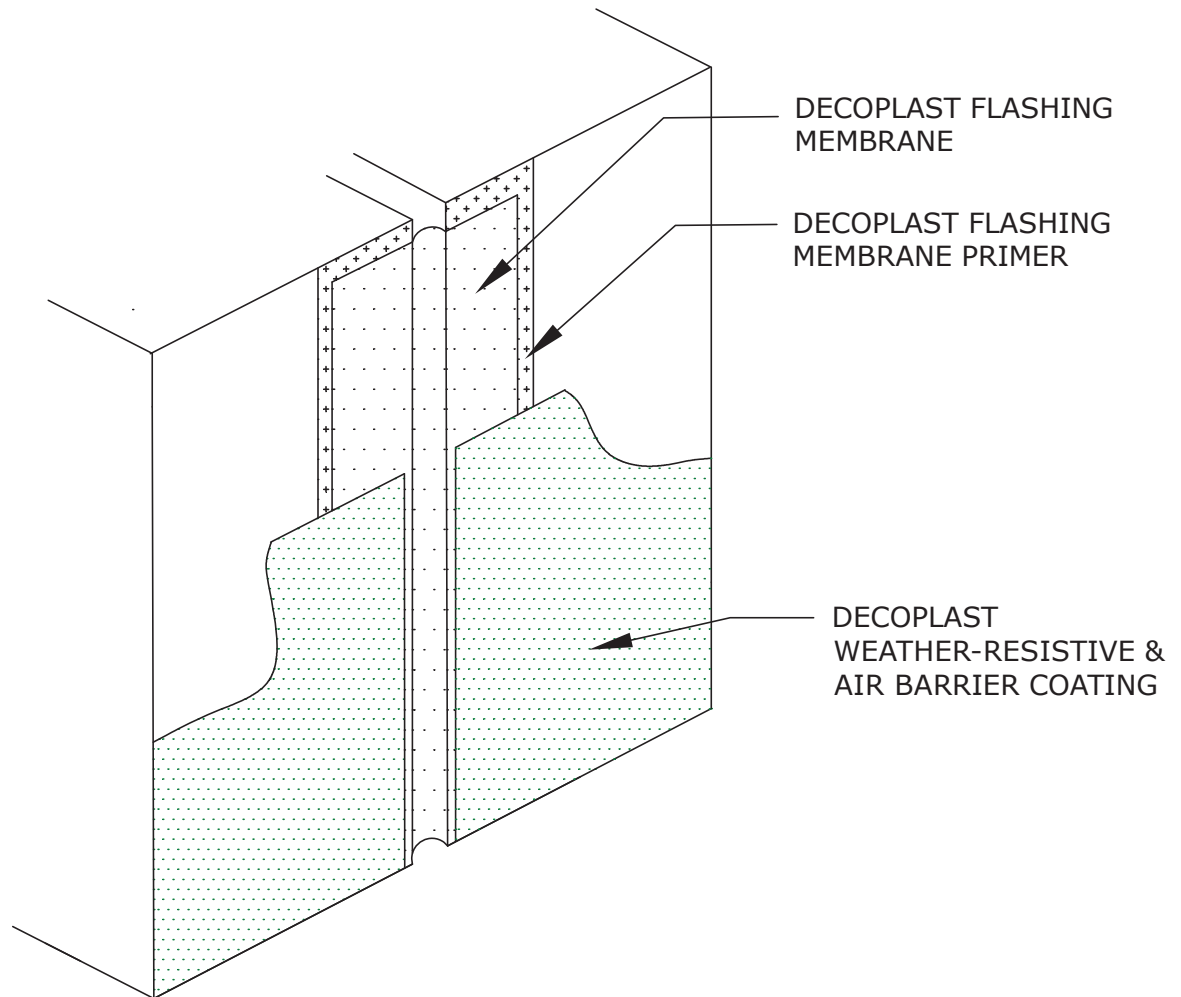
#### Notes:

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## WEATHER-RESISTIVE BARRIER



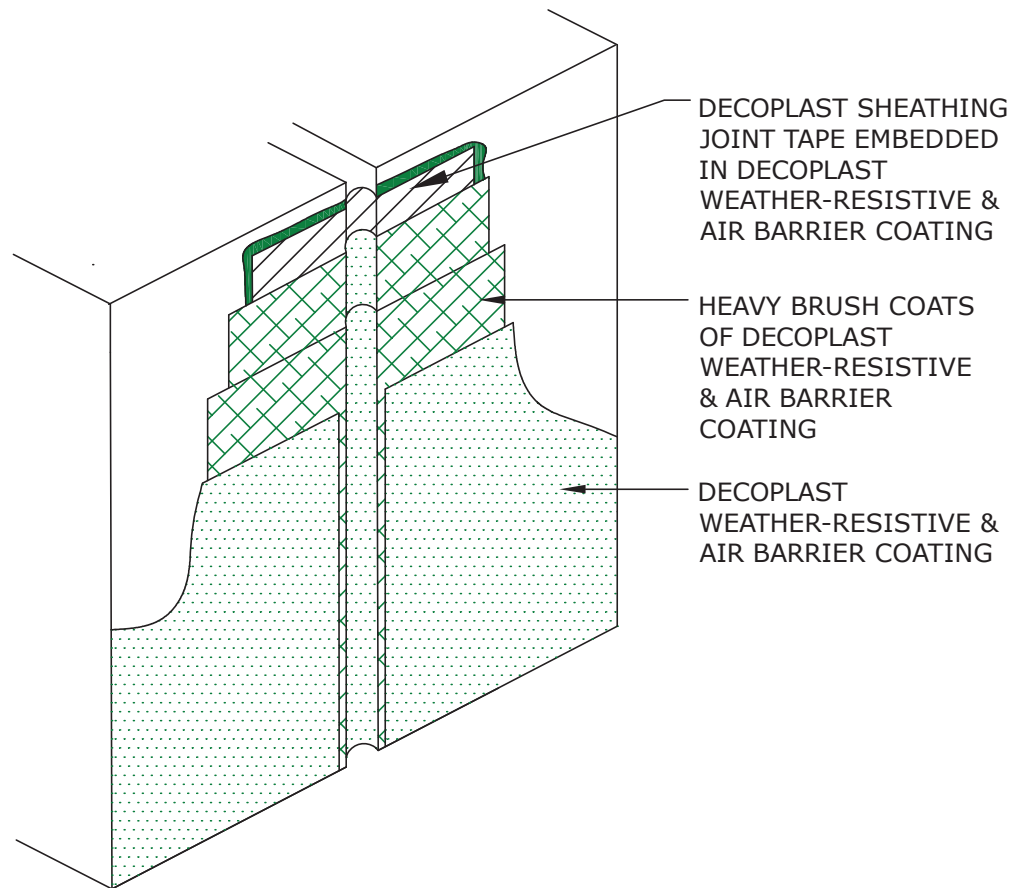
### DLWB 1.13 EXPANSION JOINT A

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#### Notes:

To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. There must be a consideration of the Designer in the overall wall assembly design. Stucco claddings and any cladding using a mortar bed require the use of a slipsheet installed over the Water-Resistive & Air Barrier Coating to prevent adhesion to the stucco.

**Disclaimer:** The design, specifications, and construction shall comply with all local building codes and standards. Decoplast installation guidelines are for general information and guidance only and Decoplast specifically disclaims any liability for the use of this design, and for design, engineering, or workmanship of any project. The assembly shall be designed to prevent condensation within the assembly. The designer and the user shall provide final drawings and specifications. Products shown other than those manufactured by Decoplast are shown for clarity of the Decoplast product only. Contact the manufacturer of such other products for installation instructions.



## DLWB 1.14 EXPANSION JOINT B

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

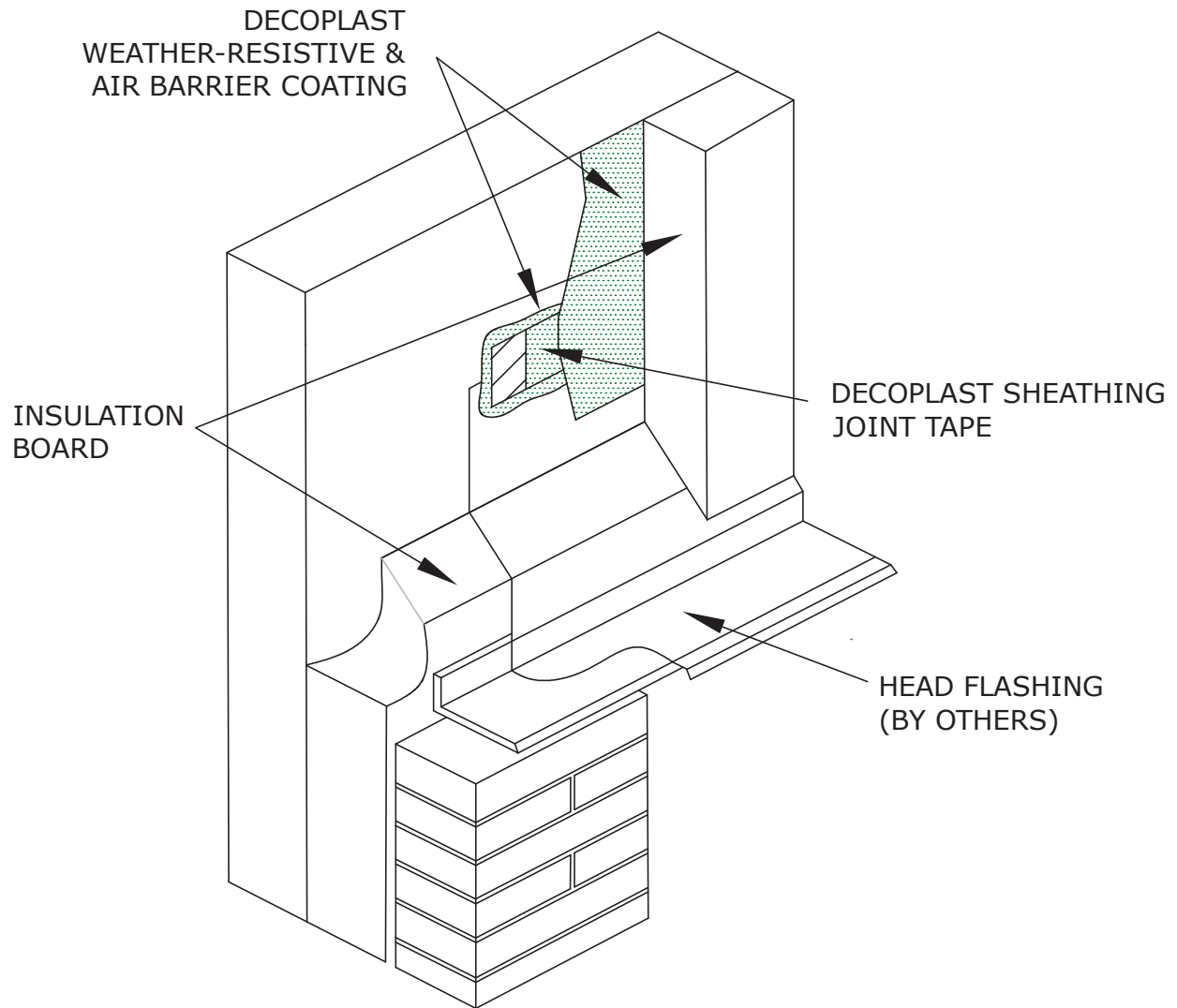
### Notes:

To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. There must be a consideration of the Designer in the overall wall assembly design. Stucco claddings and any cladding using a mortar bed require the use of a slipsheet installed over the Water-Resistive & Air Barrier Coating to prevent adhesion to the stucco.

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.16 SEAL AT MASONRY HEAD FLASHING

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

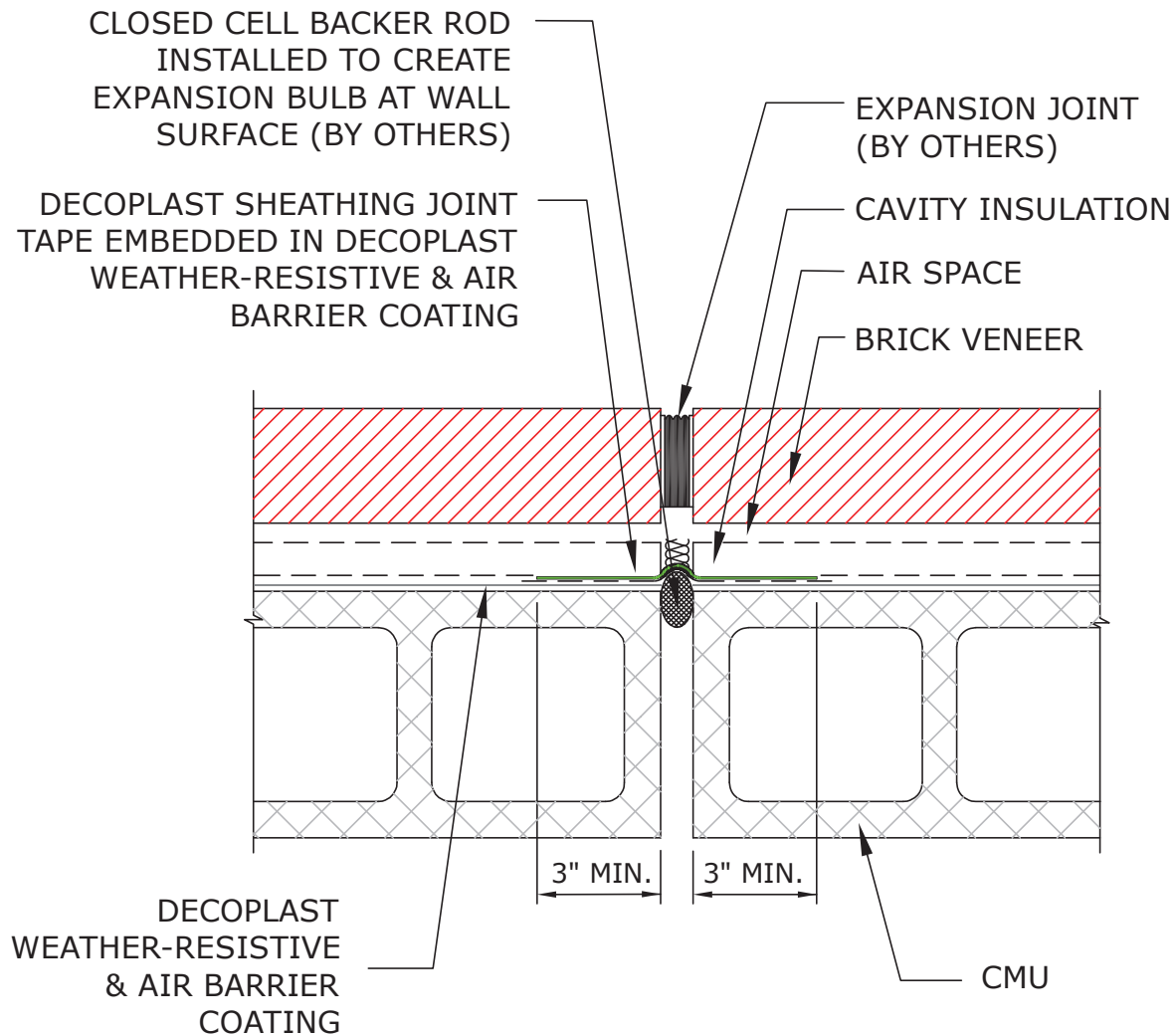
#### Notes:

To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. There must be a consideration of the Designer in the overall wall assembly design. Stucco claddings and any cladding using a mortar bed require the use of a slipsheet installed over the Water-Resistive & Air Barrier Coating to prevent adhesion to the stucco.

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## WEATHER-RESISTIVE BARRIER



### DLWB 1.17 CMU EXPANSION JOINT

DECOPLAST WEATHER-RESISTIVE BARRIER - 6/1/2016

#### Notes:

To ensure a continuous air barrier across the building envelope, a continuous air seal should be made at each substrate change, joints/gaps, penetrations and dissimilar material terminations. There must be a consideration of the Designer in the overall wall assembly design. Stucco claddings and any cladding using a mortar bed require the use of a slipsheet installed over the Water-Resistive & Air Barrier Coating to prevent adhesion to the stucco. See Decoplast Data Sheets for recommended installation procedures.

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## Decoplast Liquid Weather Resistive Barrier

### Decoplast Liquid Weather Resistive Barrier—Smooth

#### TECHNICAL DATA

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
<b>Tensile Bond</b>	ASTM E2568-09e1 ASTM C297/297M-04(2010)	Min. 15 psi (103kPa)	Substrate Minimum 20psi; 139 kPa Liquid Weather Barrier Flashing Minimum 70psi; 485 kPa
<b>Water Resistance</b>	ASTM E2568-09e1 ASTM D2247-11	14 Day exposure	Pass
<b>Water Vapor Transmission</b>	ASTM E2570 ASTM D2247-11	Vapor Permeable	Pass
<b>Air Leakage</b>	ASTM E283		.02 L/Min./m <sup>2</sup>
<b>Water Penetration</b>	ASTM E331	No water penetration beyond the inner most plane of the wall after 15 min @ 2.86psf	Pass
<b>Air Permeance</b>	ASTM E2178-11		<0.02 L/s/m <sup>2</sup> @ 75Pa
<b>Puncture Resistance</b>	Lab Test	N/A	31.5 lbs
<b>Racking</b>	ASTM E72	No cracking; net deflection 1/8"	Pass
<b>Transverse Load</b>	ASTM E1233 AC-212	10 cycles	Pass
<b>Tensile Bond</b>	ASTM C297 ASTM E2134		Pass
<b>Structural Performance</b>	ASTM E1233 Proc A	10 cycles	Pass
<b>Flame Propagation</b>	NFPA-285		Pass; UL Certified
<b>Radiant Heat Ignition</b>	NFPA-268	No Flame Spread / Ignition	Pass
<b>VOC (g/L)</b>	This product complies with US EPA, South Coast AQMD and Greenseal Standard VOC emission standards for architectural coatings. VOC less than 3 g/L.		
<b>% Solids (by volume)</b>	Calculated		65%

*Decoplast Liquid Weather Resistive Barrier is a one-component, fluid-applied vapor permeable air/water-resistive barrier. It is applied directly to vertical, above-grade approved wall substrates and provides an excellent waterproof air barrier when combined with Decoplast joint and rough opening treatment. Available with or without aggregate.*

#### Coverages per pail:

Glass-Mat Gypsum Sheathing:

420-520 ft<sup>2</sup> (39-48.3 m<sup>2</sup>)

Exterior Gypsum:

420-520ft<sup>2</sup> (39-48.3m<sup>2</sup>)

Cement Board:

450-600 ft<sup>2</sup> (41.8-55.7 m<sup>2</sup>)

Poured Concrete:

450-600 ft<sup>2</sup> (41.8-55.7m<sup>2</sup>)

Plywood\*:

135-175 ft<sup>2</sup> (12.5-16.3m<sup>2</sup>)

OSB\*:

135-175ft<sup>2</sup> (12.5-16.3 m<sup>2</sup>)

CMU Standard Weight\*:

225-275 ft<sup>2</sup> (20.5-25.5 m<sup>2</sup>)

\*Coverage for C-1177 sheathing, cement board, poured concrete is at 10 mils WFT; for Plywood, OSB and CMU are at 20 mils WFT.

**When used with Decoplast Sheathing Joint Tape to treat the sheathing joints and rough openings: (coverage may vary based on condition)**

0'-4" Sheathing Fabric

625 ft (190.5m) / pail

0'-6" Sheathing Fabric

425 ft (129.5m) / pail

0'-9" Sheathing Fabric

285 ft (87m) / pail

#### Packaging

5 gallon (19L) 52.5 lbs / 23.8 kg per pail

#### Shelf Life

24 months, if properly stored and sealed.

#### Storage

Store Liquid Weather Resistive Barrier in a cool, dry place protected from freezing. Store at no less than 4°C (40°F). Protect from



## Decoplast Liquid Weather Resistive Barrier

### Decoplast Liquid Weather Resistive Barrier—Smooth

FEATURES	BENEFITS
<b>Waterproof</b>	Possible water damage minimized with repair and restoration costs associated
<b>Vapor Permeable</b>	Condensation risk in wall minimized from water vapor diffusion
<b>Structural</b>	No air leakage between sheathing and Decoplast WRB; rigid/stable under air pressure loads; does not tear or blow off the wall with wind
<b>Resists UV Degradation / Added Durability</b>	180 day exposure rating during construction.
<b>Low VOC formulation</b>	Safe, non-toxic; VOC compliant
<b>Safe Installation</b>	Low VOC, non-flammable as applied. Easy, fast installation; does not require specialized spray equipment or highly skilled labor

#### SURFACE PREPARATION

Substrate shall be dry, clean, sound and free of release agents, paint or other residue or coatings. Damaged sheathing must be removed and replaced.

Avoid application over irregular surfaces.

Substrate to be coated must be continuous without joints, holes, etc. exceeding 1/32" (0.8 mm) in size. Sheathing must be properly installed as required by applicable building codes or sheathing manufacturer.

#### MIXING

Mix with a clean, rust-free electric drill and paddle until thoroughly blended.

**DILUTION OF DECOPLAST LIQUID WEATHER RESISTIVE BARRIER IS NOT RECOMMENDED**





## Decoplast Liquid Weather Resistive Barrier

### Decoplast Liquid Weather Resistive Barrier—Smooth

#### APPLICATION

Clean, dry, properly prepared, frost-free surfaces are needed for application. Decoplast joint and rough opening treatment required for sheathing joints, inside and outside. Spot fasteners, knots or other voids in sheathing surface. Pre-spot all fasteners with Decoplast Liquid Weather Resistive Barrier if using Decoplast Sheathing Fabric including all other voids and spot surface defects such as overdriven fasteners, knots and voids.

**Gypsum Sheathing, Glass-Mat Gypsum Sheathing, Exterior Plywood / Exterior:** Apply Decoplast Liquid Weather Resistive Barrier to prepared substrate using spray equipment that can support a minimum 1 Gallon per minute (GPM) and a .031 mil tip at 3000+ psi., or with the appropriate size nap roller in a single, uniform coating at a wet thickness of 10 mils. Application over Glass-Mat Gypsum Sheathing, plywood and exterior gypsum sheathing: use a 1/2" (13 mm) nap roller.

**Oriented Strand Board (OSB):** APA Exposure 1 Rated Oriented Strand Board (OSB) nominal 1/2 in (12.7 mm), minimum. Note: Applications over OSB sheathing requires a minimum of 2 coats of Decoplast LWB – Smooth. Decoplast Sanded LWB – is not recommended for the field of wall application over OSB. Flash all rough openings with water-resistive & air barrier coating material embedded with sheathing tape. Treat all sheathing joints, inside and outside corners and all exposed edges at terminations with water-resistive membrane & air barrier coating material and embed sheathing tape. Apply a strip of Sheathing Fabric over all sheathing joints, including inside and outside corners and trowel apply a layer of LWB over the Sheathing Tape so that the color of the fabric is not visible. Apply water-resistive membrane & air barrier coating over the entire wall surface including previously treated joints by spray or roller with a 1/2" (13mm) nap roller in a single, uniform coating at a wet thickness of 10 mils and allow drying. For air barrier, sheathing joints, rough openings, and corners must then be covered with Decoplast joint treatment. Substrate to receive the second coat of Decoplast Liquid Weather Resistive Barrier must be continuous without joints, holes, etc. exceeding 1/32" (0.8 mm) in size. The second coat of Decoplast Liquid Weather Resistive Barrier must be applied over the treated surface in a single, uniform coating to a wet thickness of 10 mils.

#### Concrete Masonry Wall Construction:

Concrete masonry wall construction must be structurally sound, clean, dry, and free from damage, frost, and all bond-inhibiting material, including dust, dirt, mold, algae, and efflorescence. Repair cracks up to 1/8 inch (3 mm) wide by filling. Rake the crack with a sharp tool to remove loose or friable material, and blow clean with oil-free compressed air. For cracks wider than 1/8" (3 mm) and up to 1/4" (6 mm) wide, use a paintable acrylic latex caulk to fill the crack, tool flush with the surface, and allow drying completely. For moving cracks consult a structural engineer. Protect crack repair materials from rain and freezing until dry.

#### Air and Moisture Barrier:

**Spray-applied over CMU:** Apply Decoplast Liquid Weather Resistive Barrier uniformly with suitable spray equipment. Backroll to fill the surface and allow drying. Apply a second uniform coat of Decoplast Liquid Weather Resistive Barrier and back-roll to achieve void / pinhole free surface. Depending on the condition of the surface, a minimum of 10 wet mils up to a maximum of 30 wet mils per coat is required. Apply additional coats if needed to achieve a VOID / PINHOLE FREE surface.

**Roller-applied over CMU:** Apply Decoplast Liquid Weather Resistive Barrier uniformly with a 3/4 inch (19 mm) nap roller and allow drying. Apply a second uniform coat of Decoplast Liquid Weather Resistive Barrier to achieve a void and pinhole free surface. Depending on the condition of the surface a minimum of 10 wet mils up to a maximum of 30 wet mils per coat is required. Apply additional coats if needed to achieve a VOID AND PINHOLE FREE surface.

**IMPORTANT NOTE:** Decoplast Liquid Weather Resistive Barrier functions as a waterproof air barrier on normal weight concrete masonry unit wall construction with flush (struck flush with the surface of the CMU) or concave joints when a minimum of two liberal coats are applied. Additional coats may be necessary depending on the condition of the CMU wall surface, CMU porosity, joint profile, and other variables that may exist. For "rough" CMU wall surfaces, skim coat the entire surface with Decoplast cementitious leveler before application of Decoplast Liquid Weather Resistive Barrier. A VOID AND PINHOLE FREE SURFACE must be achieved for Decoplast Liquid Weather Resistive Barrier to properly function as a waterproof air barrier on CMU wall surfaces.

#### Curing/Drying

Decoplast Liquid Weather Resistive Barrier is dry to touch and can be over coated within 2-4 hours under normal conditions [70°F (21°C), 50% RH]. Wait 24 hours before adhesive attachment of Decoplast insulation board. Final drying varies depending on temperature / humidity and surface conditions. Protect from rain and freezing until completely dry.

#### Material Storage

Keep containers covered to protect from skinning. If skin forms, remove the skinned material from container; remaining material is unaffected by skinned material.

#### Clean Up

Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

## Decoplast Liquid Weather Resistive Barrier

### Decoplast Liquid Weather Resistive Barrier—Smooth



#### LIMITATIONS

- Apply only when the surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.
- Not recommended for use when cool, damp conditions exist for prolonged periods. Cool, damp conditions retard drying and may require extended periods of protection.
- Do not use on damp surfaces, below grade, or on surfaces subject to water immersion.
- Not recommended for use over fire-retardant treated or pressure treated plywood substrates.
- Not recommended for spanning sheathing joints or holes in excess of 1/8" (3 mm) wide.
- Contact Decoplast Technical Service for additional information regarding coverage over different brands.
- Ventilate temporary heaters to the exterior to prevent water vapor from accumulating on or within the wall assembly materials.
- Decoplast Liquid Weather Resistive Barrier can be left exposed to weather for up to 6 months of installation to protect the substrate.
- When Decoplast Liquid Weather Resistive Barrier is used in conjunction with Decoplast Continuous Insulation Systems ensure the Decoplast Liquid Weather Resistive Barrier surface is clean, dry, and free of surface contamination. Install Decoplast Continuous Insulation System Board within 30 days of the application of Decoplast Liquid Weather Resistive Barrier, or clean the surface and recoat with Decoplast Liquid Weather Resistive Barrier.
- For Portland cement stucco and similarly constructed wall assemblies over metal lath contact Decoplast Technical Service.

#### HEALTH AND SAFETY

##### Health Precaution

As with any chemical construction product, exercise care when handling. Product is water-based.

##### WARNING!

Causes eye and skin irritation.

##### Precaution Measures:

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

##### First Aid:

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

##### Spills

Contain and collect with a suitable absorbent material such as cotton rags.

##### Disposal

Dispose of in accordance with local, state or federal regulations.

##### Warning

KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP OUT OF THE REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. Consult the Safety Data Sheet (SDS) for further health and safety information.

##### LIMITED WARRANTY

This product is subject to a written limited warranty. Refer to Decoplast Specifications for more complete information on proper use and handling of this product.



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## Decoplast Sheathing Fabric



### TECHNICAL CHARACTERISTICS

MD Yarn	500 Denier H.T. Polyester
CD Yarn	500 Denier H.T. Polyester
Pattern	5 x 5 yarns/inch
Tensile	50 x 45 yarns/inch
Weight	2.13 oz/yd <sup>2</sup>
Coating	F.R. PVC
Substrate	1 layer of 0.5 oz/yd <sup>2</sup> Spunbond Polyester

*Decoplast Sheathing Fabric is a cost-effective reinforcing fabric made by chemically bonding continuous filament yarn in an open mesh construction. It is commonly used to increase tear or puncture resistance, improve dimensional stability, or aid in processing. The utility of Decoplast Sheathing Fabric can be further enhanced by the use of functional binders for increased chemical, tear or moisture resistance, for proper chemical compatibility with the construction they are reinforcing, or for providing the adhesive properties needed for laminations.*

### PROPERTIES

**Excellent Dimensional Stability**

**Tensile Strength**

**Increased Tear Resistance**

#### Storage

Store off the ground in a dry area with adequate ventilation. Protect from extreme heat 130°F, moisture and direct sunlight.

### HEALTH AND SAFETY

#### Health Precaution

As with any chemical construction product, exercise care when handling.

#### Safety Precaution

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### First Aid:

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Contact a physician.

**SKIN CONTACT:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. **Inhalation:** Move to fresh air. If symptoms persist, call a physician.

**INGESTION:** Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. Rinse mouth with water and drink water to remove fibers from the throat. If symptoms persist, call a physician.

#### Disposal

Dispose of in accordance with local, state or federal regulations.

#### Warning

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## Deco-Shield Air / Vapor Barrier Tape



## TECHNICAL DATA / PROPERTIES

REPORT	TEST METHOD	TEST CRITERIA	TEST RESULTS
<b>Tensile Strength</b>	ASTM D-412		warp 67 lbs Weft 57 lbs
<b>Thickness</b>			17 mil
<b>Elongation</b>	ASTM D-5034		warp 16% Weft 57 lbs
<b>Water Vapor Transmission</b>	ASTM E-96 Method E	ICC: Vapor Permeable	<0.012 perm

Product	Width of Roll	Length of Roll
Deco-Shield 4	4" (101 mm)	75' (22.9 m)
Deco-Shield 6	6" (152 mm)	75' (22.9 m)
Deco-Shield 9	9" (229 mm)	75' (22.9 m)
Deco-Shield 12	12" (305 mm)	75' (22.9 m)

## FEATURES

## BENEFITS

<b>Easy to Cut</b>	Ease of Installation
<b>Rough Opening Protection</b>	Increased rapidity of installation at rough openings
<b>Flexible</b>	Easily wrapped at corners
<b>Installation Temp</b>	-20°F / 28°C to 125°F / 51.6°C

## SURFACE PREPARATION

For the application of Decoplast Deco-Shield and Weather Resistive Barriers, surfaces must be clean, dry, and free of frost, damage and all bond-inhibiting materials, including dirt, efflorescence, form oil and other foreign matter.

*Decoplast Deco-Shield Air/Vapor Barrier Tape is a self-adhering, air and moisture barrier tape used in Decoplast system assemblies. Deco-Shield is a SBS modified rubberized asphalt membrane with a polyester top surface. Deco-Shield is used with Decoplast Weather Resistive Barriers to treat sheathing joints, inside and outside corners and rough openings for a superior waterproof air barrier.*

*Decoplast Deco-Shield Tape and Weather Resistive Barriers can be used beneath various approved claddings including stucco, EIFS, vinyl, cement board, brick and with a wide variety of gypsum, cement, wood based sheathing, metal, styrene and polyethylene substrates. This tape is self-sealing when penetrated with mechanical fasteners.*

## Packaging Per Carton

Deco-Shield 4 : 12 Rolls / Box  
 Deco-Shield 6 : 8 Rolls / Box  
 Deco-Shield 9 : 4 Rolls / Box  
 Deco-Shield 12 : 4 Rolls / Box

## Storage

Store off the ground in a dry area. Protect from extreme heat [90°F (32°C)], moisture and direct sunlight.

## Deco-Shield Air / Vapor Barrier Tape



### APPLICATION

Approved sheathing must be installed in compliance with applicable code and/or manufacturer requirements. Installed sheathing must be clean, dry and free from damage, frost and all bond-inhibiting materials. Gap wood-based sheathing maximum 1/8 inch (3 mm) at joints. Should gaps exceed 1/8 inch (3 mm), up to 1/4 inch (6 mm) wide, apply low expanding urethane foam into joints and rasp or shave flush with sheathing surface.

**Trowel Applied:** Apply Decoplast Weather Resistive Barrier using a trowel or putty knife at (15 wet mils) at sheathing joints, rough openings and corners. Place 4" (101 mm) wide fabric at sheathing joints and 6" and 9" wide fabric at rough openings and inside and outside corners into wet Decoplast Weather Resistive Barrier. Immediately embed and smooth out tape. Apply an additional coat of Decoplast Weather Resistive Barrier to completely embed and seal the tape. Check for pinholes and thin spots. Provide a continuous coating and fabric membrane across the joint or rough opening surface. Allow coating to dry. Where seams or openings require use of multiple pieces of Deco-Shield tape, overlap onto the previously placed section a minimum of 2" (51 mm). If it is necessary to lap more than two layers of tape, additional Decoplast Weather Resistive Barrier must be applied between layers, and the substrate must be examined, verifying that an adequate amount of coating penetrates through the tape.

**Roller or Spray Applied:** Apply Decoplast Weather Resistive Barrier using an appropriate airless sprayer at (15 wet mils) at sheathing joints, rough openings and corners.

**Roller:** Use a 3/4" nap roller to apply the Decoplast Weather Resistive Barrier at sheathing joints, rough openings and corners.

### LIMITATIONS

Deco-Shield tape to be used in conjunction with Decoplast Weather Resistive Barrier.

Protect from rain and freezing until completely dry.

Apply only when the surface and ambient temperatures are above 40°F (4°C) and below 100°F (38°C) during application and drying period.

Not recommended for use when cool, damp conditions exist for extended periods.

Cool, damp conditions retard drying and may require extended periods of protection.

Do not use on damp surfaces, below grade, or on surfaces subject to water immersion.

Not recommended for spanning sheathing joints or holes in excess of 1/8" (3 mm) wide.

### HEALTH AND SAFETY

#### Health Precaution

As with any chemical construction product, exercise care when handling.

#### Safety Precaution

Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

#### First Aid:

**EYE CONTACT:** Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Contact a physician.

**SKIN CONTACT:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists. **Inhalation:** Move to fresh air. If symptoms persist, call a physician.

**INGESTION:** Accidental ingestion of this material is unlikely. If this does occur, watch person for several days to make sure intestinal blockage does not occur. Rinse mouth with water and drink water to remove fibers from the throat. If symptoms persist, call a physician.

#### Disposal

Dispose of in accordance with local, state or federal regulations.

#### Warning

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